

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210

(509) 924-9200 24-9290 (503) 906-9200

FAX 906-9210 (541) 383-9310 FAX 382-7588

HAIN OF CUSTODY REPORT	Work Order #: M	1060	
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CLIENT: BRISTOL	Indianal Park			INVO	DICE TO	:								TURN	AROUNI	REQU	EST in Busi	ness Da	ys*
REPORT TO: ANNE K	RANAWE	TTER		BR	457	10	Promocoli										anic Analyses		
ADDRESS: AMCHITK														10 7	-	-	3 2	1.	< 1
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PROJECT NUMBER: 2															OTH		ease speeny		
	MARK	3												*Turnaro	und Requests	less than sta	ndard may incur	Rush Char	ges.
CLIENT SAMPLE	SAMPLING	17.2	2										Ī	MATRIX	# OF				NCA WO
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2.01AMB9575L	6/6/01 1130	o V												5	7				
3. OIAM B958 SL														2	2				
1.01 AMB9595L	6/14/01 11	10 1	1											5	2				
5.01 AMB960 5L	6/16/01	15 V	V											5	2				
5. 01 Am B961 SL	6/16/01 113	50 V	~											5	\rightarrow				
1.01Am 89628	6/16/01 115	5												5	(
8. OIAMB963SL	600	40 1												5	2				
D. OJAM B964SL	61601 14	45 4	- 1											S	2				
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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/16/01 16:00. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

1112

Work Orders included in this report:

M106048



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Bristol Environmental & Engineering 2000 W International Airport C#1 Project: Amchitka Project Number: 21090

Reported: 06/20/01 22:05

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB956SL	M106048-01	Soil	06/16/01 11:25	06/16/01 16:00
01AMB957SL	M106048-02	Soil	06/16/01 11:30	06/16/01 16:00
01AMB958SL	M106048-03	Soil	06/16/01 11:35	06/16/01 16:00
01AMB959SL	M106048-04	Soil	06/16/01 11:40	06/16/01 16:00
01AMB960SL	M106048-05	Soil	06/16/01 11:45	06/16/01 16:00
01AMB961SL	M106048-06	Soil	06/16/01 11:50	06/16/01 16:00
01AMB962SL	M106048-07	Soil	06/16/01 11:55	06/16/01 16:00
01AMB963SL	M106048-08	Soil	06/16/01 14:40	06/16/01 16:00
01AMB964SL	M106048-09	Soil	06/16/01 14:45	06/16/01 16:00
01AMB965SL	M106048-10	Soil	06/16/01 14:50	06/16/01 16:00
01AMB966SL	M106048-11	Soil	06/16/01 14:55	06/16/01 16:00
01AMB967SL	M106048-12	Soil	06/16/01 15:00	06/16/01 16:00

C. O. C. #87

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka Reported: 2000 W International Airport C#1 Project Number: 21090 Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 06/20/01 22:05

Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB956SL (M106048-01) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	79.1 % 117 %	50-150 50-150							
01AMB957SL (M106048-02) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	78.9 % 120 %	50-150 50-150							
01AMB958SL (M106048-03) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	84.4 % 120 %	50-150 50-150							
01AMB959SL (M106048-04) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	82.5 % 119 %	50-150 50-150							
01AMB960SL (M106048-05) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	2200	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	104 % 88.1 %	50-150 50-150							
01AMB961SL (M106048-06) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane Surr: Triacontane	80.7 % 113 %	50-150 50-150							

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Bristol Environmental & Engineering 2000 W International Airport C#1

Anchorage, AK 99502-1116

Project: Amchitka Project Number: 21090

Reported:

Project Manager: Anne Kranawetter

06/20/01 22:05

Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
Allaryte	Result	LIIIII	Ullits	Dilution	Method	Prepared	Allalyzeu	Datcii	Note
01AMB963SL (M106048-08) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/0	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane	92.1 %	50-150							
Surr: Triacontane	93.7 %	50-150							
01AMB964SL (M106048-09) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/0	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane	84.2 %	50-150							
Surr: Triacontane	123 %	50-150							
01AMB965SL (M106048-10) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/0	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane	94.4 %	50-150							
Surr: Triacontane	90.6 %	50-150							
01AMB966SL (M106048-11) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/0	01	
Diesel Range Organics	209	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane	85.8 %	50-150							
Surr: Triacontane	121 %	50-150							
01AMB967SL (M106048-12) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/0	01	
Diesel Range Organics	1350	150	mg/kg dry	1	AK 102	06/18/01	06/19/01	0106061	
Surr: 1-Chlorooctadecane	97.6 %	50-150	•			•	•		
Surr: Triacontane	97.3 %	50-150							

North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter 06/20/01 22:05

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB956SL (M106048-01) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0663	mg/kg dry	50	!1B BTEX/MT	ΓΙ 06/19/01	06/19/01	0106066	
Toluene	ND	0.265	"	"	"	"	"	"	
Ethylbenzene	ND	0.265	"	"	"	"	"	"	
Xylenes (total)	ND	0.530	"	"	"	"	"	"	
Naphthalene	ND	2.65	"	"	"	"	"	"	
Surr: 4-BFB	75.3 %	50-150							
01AMB957SL (M106048-02) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0761	mg/kg dry	50	!1B BTEX/MT	ΓΙ 06/19/01	06/19/01	0106066	
Toluene	ND	0.304	"	"	"	"	"	"	
Ethylbenzene	ND	0.304	"	"	"	"	"	"	
Xylenes (total)	ND	0.609	"	"	"	"	"	"	
Naphthalene	ND	3.04	"	"	"	"	"	"	
Surr: 4-BFB	73.5 %	50-150							
01AMB958SL (M106048-03) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0723	mg/kg dry	50	!1B BTEX/MT	ΓΙ 06/19/01	06/19/01	0106066	
Toluene	ND	0.289	"	"	"	"	"	"	
Ethylbenzene	ND	0.289	"	"	"	"	"	"	
Xylenes (total)	ND	0.578	"	"	"	"	"	"	
Naphthalene	ND	2.89	"	"	"	"	"	"	
Surr: 4-BFB	76.2 %	50-150							
01AMB959SL (M106048-04) Soil					Sampled: 06/	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0694	mg/kg dry	50	!1B BTEX/MT	ГІ 06/19/01	06/19/01	0106066	
Toluene	ND	0.278	"	"	"	"	"	"	
Ethylbenzene	ND	0.278	"	"	"	"	"	"	
Xylenes (total)	ND	0.555	"	"	"	"	"	"	
Naphthalene	ND	2.78	"	"	"	"	"	"	
Surr: 4-BFB	82.6 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 06/20/01 22:05

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB960SL (M106048-05) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/	01	
Benzene	0.280	0.0541	mg/kg dry	50	!1B BTEX/M	ΓΙ 06/19/01	06/19/01	0106066	
Toluene	0.410	0.216	"	"	"	"	"	"	
Ethylbenzene	1.34	0.216	"	"	"	"	"	"	
Xylenes (total)	3.48	0.433	"	"	"	"	"	"	
Naphthalene	5.14	2.16	"	"	"	"	"	"	
Surr: 4-BFB	91.8 %	50-150							
01AMB961SL (M106048-06) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0517	mg/kg dry	50	!1B BTEX/M	ΓΙ 06/19/01	06/19/01	0106066	
Toluene	ND	0.207	"	"	"	"	"	"	
Ethylbenzene	ND	0.207	"	"	"	"	"	"	
Xylenes (total)	ND	0.414	"	"	"	"	"	"	
Naphthalene	ND	2.07	"	"	"	"	"	"	
Surr: 4-BFB	75.6 %	50-150							
01AMB962SL (M106048-07) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.133	mg/kg dry	50	!1B BTEX/MT	ΓΙ 06/19/01	06/20/01	0106066	
Toluene	ND	0.531	"	"	"	"	"	"	
Ethylbenzene	ND	0.531	"	"	"	"	"	"	
Xylenes (total)	ND	1.06	"	"	"	"	"	"	
Naphthalene	ND	5.31	"	"	"	"	"	"	
Surr: 4-BFB	83.5 %	50-150							
01AMB963SL (M106048-08) Soil					Sampled: 06	/16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0584	mg/kg dry	50	!1B BTEX/M	ГІ 06/19/01	06/20/01	0106066	
Toluene	ND	0.234	"	"	"	"	"	"	
Ethylbenzene	ND	0.234	"	"	"	"	"	"	
Xylenes (total)	ND	0.467	"	"	"	"	"	"	
Naphthalene	ND	2.34	"	"	"	"	"	"	
Surr: 4-BFB	69.2 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

Reported: 06/20/01 22:05

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Project: Amchitka

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Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB964SL (M106048-09) Soil					Sampled: 06/1	16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0632	mg/kg dry	50	!1B BTEX/MT	1 06/19/01	06/20/01	0106066	
Toluene	ND	0.253	"	"	"	"	"	"	
Ethylbenzene	ND	0.253	"	"	"	"	"	"	
Xylenes (total)	ND	0.505	"	"	"	"	"	"	
Naphthalene	ND	2.53	"	"	"	"	"	"	
Surr: 4-BFB	68.2 %	50-150							
01AMB965SL (M106048-10) Soil					Sampled: 06/1	16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0626	mg/kg dry	50	!1B BTEX/MT	1 06/19/01	06/20/01	0106066	
Toluene	ND	0.250	"	"	"	"	"	"	
Ethylbenzene	ND	0.250	"	"	"	"	"	"	
Xylenes (total)	ND	0.501	"	"	"	"	"	"	
Naphthalene	ND	2.50	"	"	"	"	"	"	
Surr: 4-BFB	67.7 %	50-150							
01AMB966SL (M106048-11) Soil					Sampled: 06/1	16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0614	mg/kg dry	50	!1B BTEX/MT	I 06/19/01	06/20/01	0106066	
Toluene	ND	0.246	"	"	"	"	"	"	
Ethylbenzene	ND	0.246	"	"	"	"	"	"	
Xylenes (total)	ND	0.491	"	"	"	"	"	"	
Naphthalene	ND	2.46	"	"	"	"	"	"	
Surr: 4-BFB	67.8 %	50-150							
01AMB967SL (M106048-12) Soil					Sampled: 06/1	16/01 Rece	eived: 06/16/	01	
Benzene	ND	0.0449	mg/kg dry	50	!1B BTEX/MT		06/20/01	0106066	
Toluene	ND	0.179	"	"	"	"	"	"	
Ethylbenzene	ND	0.179	"	"	"	"	"	"	
Xylenes (total)	ND	0.359	"	"	"	"	"	"	
Naphthalene	ND	1.79	"	"	"	"	"	"	
Surr: 4-BFB	83.8 %	50-150							

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported: 06/20/01 22:05

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

		Reporting	-						
Analyte	Result	1 0	nits Di	lution	Method	Prepared	Analyzed	Batch	Notes
01AMB956SL (M106048-01) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	78.1	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB957SL (M106048-02) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	78.2	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB958SL (M106048-03) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	82.1	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB959SL (M106048-04) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	82.3	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB960SL (M106048-05) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	82.6	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB961SL (M106048-06) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	78.4	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB962SL (M106048-07) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	100	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB963SL (M106048-08) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	77.8	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB964SL (M106048-09) Soil					Sampled: 06/1	6/01 Rece	eived: 06/16/0	01	
% Solids	80.3	0.0100 % by	Weight	1	Gravimetric	06/17/01	06/18/01	0106062	

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1 Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/20/01 22:05

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMB965SL (M106048-10) Soil					Sampled: 06/	16/01 Rece	ived: 06/16/	01	
% Solids	81.9	0.0100 % 1	by Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB966SL (M106048-11) Soil					Sampled: 06/	16/01 Rece	ived: 06/16/	01	
% Solids	81.4	0.0100 % 1	by Weight	1	Gravimetric	06/17/01	06/18/01	0106062	
01AMB967SL (M106048-12) Soil					Sampled: 06/	16/01 Rece	ived: 06/16/	01	
% Solids	78.8	0.0100 % 1	by Weight	1	Gravimetric	06/17/01	06/18/01	0106062	

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%REC

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91.5

50-150

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Surr: Triacontane

Project Manager: Anne Kranawetter

06/20/01 22:05

RPD

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab

Spike

23.4

Source

Reporting

21.4

Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0106061 - 3545 ASE									
Blank (0106061-BLK1)			Prepare	ed: 06/18/0	1 Analyz	ed: 06/19/0)1		
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	19.1	"	23.4		81.6	50-150			
Surr: Triacontane	17.1	"	23.4		73.1	50-150			
LCS (0106061-BS1)			Prepare	ed: 06/18/0	1 Analyz	ed: 06/19/0)1		
Diesel Range Organics	1330	150 mg/kg wet	1250		106	75-125			
Surr: 1-Chlorooctadecane	26.6	"	23.4		114	50-150			
Surr: Triacontane	22.5	"	23.4		96.2	50-150			
LCS Dup (0106061-BSD1)			Prepare	ed: 06/18/0	1 Analyz	ed: 06/19/0)1		
Diesel Range Organics	1380	150 mg/kg wet	1250		110	75-125	3.69	20	
Surr: 1-Chlorooctadecane	21.6	"	23.4		92.3	50-150			

Matrix Spike (0106061-MS1)	Sourc	e: M106048-01	Prepare	d: 06/18/0	1 Analyz	zed: 06/19/01
Diesel Range Organics	1730	150 mg/kg dry	1600	ND	108	60-140
Surr: 1-Chlorooctadecane	27.7	"	30.0		92.3	50-150
Surr: Triacontane	26.5	"	30.0		88.3	50-150

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

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Project Manager: Anne Kranawetter

06/20/01 22:05

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0106066 - MeOH Extraction

Blank (0106066-BLK1)				Prepared & A	Analyzed: 06/1	9/01
Benzene	ND	0.0250 r	ng/kg wet		-	
Toluene	ND	0.100	"			
Ethylbenzene	ND	0.100	"			
Xylenes (total)	ND	0.200	"			
Naphthalene	ND	1.00	"			
Surr: 4-BFB	2.23		"	2.50	89.2	50-150
LCS (0106066-BS1)				Prepared & A	Analyzed: 06/1	9/01
Benzene	1.95	0.0250 r	ng/kg wet	2.50	78.0	69-138
Toluene	1.99	0.100	"	2.50	79.6	53-151
Ethylbenzene	2.22	0.100	"	2.50	88.8	61-141
Xylenes (total)	6.26	0.200	"	7.50	83.5	62-141
Naphthalene	2.82	1.00	"	2.50	113	65-135
Surr: 4-BFB	2.32		"	2.50	92.8	50-150

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Bristol Environmental & Engineering 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter

Project: Amchitka

Reported: 06/20/01 22:05

Notes and Definitions

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception			
			Report recreated from:			
			\\sisters\elmnt\Report\M106048 FINAL 06 20 01			
			2205.mdb			
			Default Report (not modified)			